

CLAIMS

What is claimed as being new and desired to be protected by LETTERS PATENT of the United States is as follows:

1. A trailer hitch and draw bar system to allow variable positions of storage for a trailer hitch comprising, in combination:

a hitch attachment assembly adapted to couple to the rear of a motor vehicle and having a female extending tube with a hollow rectangular interior and a top face, bottom face and first side face and second side face;

a pair of apertures, including a primary aperture and secondary aperture laterally aligned from each other on the side faces of the female extending tube of the hitch attachment assembly, the primary aperture being in the first side face of the hitch attachment assembly and having an eight pointed star configuration with each of the points being formed by a 90 degree angle and the secondary aperture being in the second side face of the hitch attachment assembly and having a circular configuration;

a hitch draw bar having a coupling assembly adapted to releasably attach to a trailer from the class of trailers including but not limited to boats, mobile homes, cars and wheelchair lifts, the hitch draw bar having a ball and a leveling portion specific to the application and adapted to align the

motor vehicle hitch attachment assembly with the trailer, the hitch draw bar further including a male extending tube with an outer rectangular configuration and an end face with the male extending tube being adapted to be slidably received inside of the female extending tube of the hitch attachment assembly when in a use orientation, the hitch draw bar being adapted to be stored at any of a plurality of various angles with respect to the motor vehicle due to the various combinations the rectangular male extending tube can fit into the eight pointed star configuration of the primary aperture of the hitch attachment assembly to thereby maximize safety and convenience;

a retractable cylindrical finger having an external end and an internal end with the external end having a diametric bore there through with a coil spring adjacent to the internal end and a supporting chamber for receiving the coil spring and the internal end of the finger, the finger being retractably coupled to the male extending tube of the hitch draw bar and extending perpendicularly from the end face of the male extending tube and being adapted to retract into the male extending tube and held extended with the spring, the finger being adapted to retract when the male extending tube of the hitch draw bar is in the female extending tow during the in use orientation and the finger being adapted to remain extended when the finger is passed through the pair of apertures during the storage orientation; and

a locking pin being adapted to pass through the bore of the external end of the finger and retain the hitch draw bar in the storage orientation.

2. A trailer hitch and draw bar system comprising:

a hitch attachment assembly having a female extending tube with a hollow rectangular interior and a pair of side faces;

a pair of apertures aligned with each other on the side faces of the female extending tube of the hitch attachment assembly;

a hitch draw bar having a male extending tube with an outer rectangular configuration, the male extending tube positionable within the female extending tube when in a use orientation; and

a cylindrical finger having an external end and an internal end coupled with respect to the male extending tube and with the external end having a diametrical bore there through, the finger positionable within the pair of apertures when in a storage orientation; and

a locking pin adapted to pass through the bore of the finger when in the storage orientation.

3. The system as set forth in claim 2 wherein the pair of apertures include a primary aperture and secondary aperture laterally aligned from each other on the side faces of the female extending tube of the hitch attachment assembly, the primary aperture being in the first side face of the hitch attachment

assembly and having an eight pointed star configuration with each of the points being formed by a 90 degree angle and the secondary aperture being in the second side face of the hitch attachment assembly and having a circular configuration.

4. The system as set forth in claim 2 wherein the cylindrical finger has an external end and an internal end with the external end having a diametric bore there through with a coil spring adjacent to the internal end and a supporting chamber for receiving the coil spring and the internal end of the finger, the finger being retractably coupled to the male extending tube of the hitch draw bar and extending perpendicularly from the end face of the male extending tube and being adapted to retract into the male extending tube and held extended with the spring, the finger being adapted to retract when the male extending tube of the hitch draw bar is in the female extending tube during the in use orientation and the finger being adapted to remain extended when the male extending tube is in the primary aperture and the finger is passed through the secondary aperture during the storage orientation

5. The system as set forth in claim 2 wherein the cylindrical finger has an external end and an internal end with the external end having a diametric bore there through and with the internal end having male threads and also including a stopper

in the end of the hitch coupling assembly, the stopper having female threads for receiving the male threads of the finger.

6. The system as set forth in claim 2 wherein the pair of apertures aligned with each other on the side faces of the female extending tube of the hitch attachment assembly are each of a circular configuration and further including aligned circular apertures in the male extending tube, adapted to be aligned with the pair of apertures on the side faces of the female extending tube for receiving a pin for securement purposes when in the use orientation.

7. The system as set forth in claim 2 wherein the internal end of the finger is within the male extending tube.

8. The system as set forth in claim 2 wherein the finger is L-shaped and external of the male extending tube.